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Disappearance of B.A.C. 4923 *at the Moon's Dark Limb,* 1862, *June* 9, *observed at the Radcliffe Observatory, Oxford.* By the Rev. R. Main.

The star is a double star, the components being of about the 6th and 9th magnitudes. The time of disappearance of each star was instantaneous, and the observations were very good.

	h	m	s
Sidereal time of disapp. of smaller star	15	22	44·53
,, ,, larger ,, ...	15	23	14·03
Oxford mean time of disapp. of smaller star ...	10	10	40·03
,, ,, larger star ...	10	11	9·45
Greenwich mean time of disapp. of smaller star ...	10	15	42·63
,, ,, larger star ...	10	16	12·05

This star deserves the attention of astronomers, as, in addition to its duplicity, it has a large proper motion of $+0^s\cdot068$ in R.A., and of $+1''\cdot68$ in N.P.D.

I observed the distance and angle of position of the components of the double star on May 19, 1862; and I found for the distance (mean of six measures) $13''\cdot51$, and for the angle 283° 51′.

By comparison with Smyth's measures (*Cycle*, vol. ii. p. 329), it would appear that (unless he is in error) the star has been changing very rapidly both in distance and position-angle.

Observations of Jupiter's Satellites and of Saturn's Ring: Occultation of a Star by the Moon. By C. G. Talmage, Esq.

I send four observations of *Jupiter's* Satellites made at Nice, and three made at Mr. Coventry's Observatory, 5 Tavistock Square, and also an extract from my note-book concerning the peculiar appearance of *Saturn's* ring, about which so much has lately been said.

Occultation: Disappearance of Jupiter's First Satellite.

1862, March 17.

	h	m	s	
First contact	7	55	4	Nice M.T.
Central bisec.	7	56	39	,,
Total immersion	7	58	43·5	,,

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Transit: Egress of Jupiter's First Satellite.

1862, March 18.

	h m s	
First appearance	7 20 56	Nice M.T.
Central bisec.	7 25 20	,,
Last contact	7 29 49	,,

Eclipse: Reappearance of Jupiter's Second Satellite.

1862, March 24.

$11^h\ 55^m\ 53^s{\cdot}74$ Nice M.T.

The time noted is exact; the satellite very distinct and beautifully defined; there appeared a great rupture in the southern belt near the centre, of a pyramidical shape, and a much darker colour than any other part of the belt.

Eclipse: Reappearance of Jupiter's First Satellite.

1862, March 24.

$12^h\ 13^m\ 10^s{\cdot}90$ Nice M.T.

The satellite rather faint.

Latitude of Nice = 43° 41′ 46″ N.
Longitude ditto = $29^m\ 7^s$ E.

Nice, February 24, 8^h, 1862.

The night was not very fine, although *Saturn* appeared very distinct, and the peculiar marking on the ring was well defined, presenting a double serrated edge, with a distinct black line between the upper and lower edges; and the body of *Saturn* had, if I may use the expression, a dirty look. I only mention this, as I have not seen any observations of the kind prior to the above date, which I think shows that we are favoured with a very fine atmosphere, to see that peculiarity in our small glass.

Occultation: Disappearance of Jupiter's Second Satellite.

1862, May 2.

$8^h\ 58^m\ 22^s{\cdot}30$ G.M.T.

Eclipse: Reappearance of Jupiter's First Satellite.

1862, May 2.

$10^h\ 12^m\ 8^s{\cdot}30$ G.M.T.

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Eclipse: Reappearance of Jupiter's Second Satellite.

1862, May 20.

$8^{h}\ 21^{m}\ 49^{s}{\cdot}80$ G.M.T.

Latitude of Tavistock Square Observ^{y}. 51° 31′ 30″ N.
Longitude ditto $0^{h}\ 0^{m}\ 29^{s}{\cdot}7$ W.

Mr. Talmage sent also the following observation,

Occultation: Disappearance of B.A.C. 4923, *June* 9.

This is a very fine double star of the 6th and 8th magnitudes. The following are the noted times of disappearance:—

	h	m	s	
Small star, 8th mag.	10	17	24·50	G.M.T.
Large star, 6th mag.	10	17	52·80	„

At the time of reappearance, a thin cloud hid the small star, but the larger one came out sharp and well defined, instantaneously at

$11^{h}\ 29^{m}\ 7^{s}{\cdot}00$ G.M.T.

Results of Meridional Observations of Small Planets, and Phenomena of Jupiter's Satellites; observed at the Royal Observatory, Greenwich, during the month of May, 1862.

(*Communicated by the Astronomer Royal.*)

Hebe ⑥.

Mean Solar Time of Observation.		R.A. from Observation.	N.P.D. from Observation.
	h m s	h m s	° ′ ″
1862, May 12	13 36 58·6	16 59 12·55	90 40 15·52
20	12 59 4·9	16 52 45·10	90 12 48·56
31	12 5 37·0	16 42 30·58	89 53 9·54

Flora ⑧.

Mean Solar Time of Observation.		R.A. from Observation.	N.P.D. from Observation.
	h m s	h m s	° ′ ″
1862, May 5	10 38 38·6	13 32 47·41	89 44 50·77
19	9 33 56·7	13 23 6·65	89 25 36·17
20	29 29·5	13 22 35·25	89 25 37·88